

Listing of the Claims:

The following is a complete listing of all the claims in the application, with an indication of the status of each:

- 1 1 (Currently Amended). An apparatus for the transmission of
2 time-synchronous multi-media data from a sender to a receiver using a IP
3 (Internet Protocol) network, wherein the time-synchronous data is processed
4 and transmitted at the sender as well as the receiver, the mechanism
5 comprising:
6 a sender receiving time-synchronous multi-media data;
7 a mechanism connected to said sender for processing the time-
8 synchronous multi-media data for output to said IP network; and
9 a receiver connected to said IP network for receiving processed time-
10 synchronous multi-media data transmitted over said IP netowrk;
11 said mechanism comprising:
12 a first processing unit composed of multiple subcomponents, each
13 subcomponent being designed to process the time-synchronous data in a
14 specific and different way, a plurality of said multiple subcomponents being
15 selected from the group consisiting of a codec, a filter and an IP packetizer;
16 a second processing unit parallel to the first processing unit, said
17 second processing unit being composed of multiple subcomponents, each
18 subcomponent being designed to process the time-synchronous data in a
19 specific and different way, a plurality of said multiple subcomponents being
20 selected from the group consisiting of a codec, a filter and an IP packetizer,
21 wherein the subcomponents of the second processing unit are setup and
22 adapted based on changed sender data rate or network characteristics by
23 configuring attribute parameters of the subcomponents, wherein data
24 processing and transmission of the time-synchronous mulit-media data is
25 continued within the first processing unit during the setup and adaptation of

26 the second processing unit; and
27 a switch selecting between the first and second processing units, the
28 processing and transmission of the time-synchronous multi-media data
29 initially being performed by the first processing unit and, after switching by
30 the switch, the processing and transmission of the time-synchronous multi-
31 media data is performed using the second processing unit such that the
32 processing and transmission of the time-synchronous multi-media data is
33 performed within the second processing unit, the output of said switch being
34 connected to said IP network.

1 2 (Previously Presented). The apparatus according to claim 1, wherein the
2 setup and adaptation of the second processing is started using a trigger event.

1 3 (Previously Presented). The apparatus according to claim 1, wherein the
2 switching is performed after completion of the setup and adaptation of the
3 second processing unit.

1 4 (Previously Presented). The apparatus according to claim 1, wherein the
2 switching is performed after reaching a certain switching condition.

1 5 (Previously Presented). The apparatus according to claim 4, wherein the
2 certain switching condition is whether at least one given parameter reaches at
3 a predetermined value.

1 6 (Currently Amended). The apparatus according to claim 1, wherein the time-
2 synchronous multi-media data is processed in the first processing unit using a
3 plurality of said multiple subcomponents.

1 7 (Previously Presented). The apparatus according to claim 6, wherein the
2 subcomponents include at least one of a codec, a filter, a packetizer, and a
3 memory buffer.

1 8 (Currently Amended). The apparatus according to claim 1, wherein the time-
2 synchronous multi-media data is processed in the second processing unit using
3 a plurality of said multiple subcomponents.

1 9 (Previously Presented). The apparatus according to claim 8, wherein the
2 subcomponents include at least one of a codec, a filter, a packetizer, and a
3 memory buffer.

1 10 (Currently Amended). The apparatus according to ~~one~~ claim 8, wherein the
2 subcomponents are connected during setup.

1 11 (Previously Presented). The apparatus according to claim 1, wherein the
2 first and second processing unit is initialized after setup.

1 12 (Previously Presented). The apparatus according to claim 8, wherein each
2 of the subcomponents of the second processing unit is adapted to the other
3 subcomponents or changed sender data rate or changed network
4 characteristics.

1 13 (Previously Presented). The apparatus according to claim 6, wherein, after
2 switching by the switch, the subcomponents of the first processing unit are
3 de-attached from each other.

1 14 (Previously Presented). The apparatus according to claim 13, wherein a
2 plurality of the second processing units is setup and, after switching by the

3 switch, the subcomponents of the first processing unit are included in one of
4 the second processing units.

1 15 (Previously Presented). The apparatus according to claim 6, wherein after
2 switching by the switch, the subcomponents of the first processing unit remain
3 connected.

1 16 (Previously Presented). The apparatus according to claim 1, wherein a
2 plurality of second processing units are setup and adapted based on changed
3 data rate and network characteristics.

1 17 (Currently Amended). The apparatus according to claim 1, wherein an
2 additional processing unit for the processing and transmission of time-
3 synchronous multi-media data is used in sequence with the first and second
4 processing units.

1 18 (Currently Amended). The apparatus according to claim 1, wherein the
2 time-synchronous multi-media data is gathered with one of mechanisms for
3 acquiring visual data and speech data.